

Description

TopGard 4000 is a multipurpose, 100% acrylic elastomeric coating for use over a variety of substrates, including asphalt, single ply and metal roofing. TopGard 4000 has unique bleed-blocking properties that make it particularly well suited for coating over asphalt surfaces. TopGard 4000 exceeds several ASTM D 6083 requirements for critical properties such as tensile strength, elongation, wet adhesion and weatherability.

Use

TopGard 4000 is used as an excellent reflective coating over smooth- or mineral-surfaced roofing systems on smooth roofs. It can be used over both modified and built-up roofing systems. For best results, this product should not be applied until the roofing membrane has had the opportunity to cure at least 60 days.

Application

When applying TopGard 4000, use a brush, roller or spray equipment. Make sure that all surfaces are clean, dry and free of any dirt, grease, oil or other debris that may interfere with proper adhesion. It is recommended that TopGard 4000 be applied in two coats. The first coat should be completely dry (normally 4 to 12 hours) before applying the second coat.

Temperatures must be 50°F (10°C) and rising during time of application. Do not apply TopGard 4000 within 24 hours of anticipated rain, dew or freezing temperatures. As with any coating, cooler temperatures and high humidity will slow the cure time.

Advantages

- Fully adhered installation
- Energy savings
- Asphalt bleed blocking
- Prolonged roof life
- 100% acrylic durability
- Reduced life cycle costs



Energy and the Environment

ENERGY STAR®	Pass	Reflectivity: 0.83*	
California Title 24	Pass	Reflectivity: 0.83*	Emissivity: 0.88
LEED®		Reflectivity: 0.83*	Emissivity: 0.88
		Sustainable Sites (credits 5.1, 5.2, 7.1, 7.2)	
		Energy and Atmosphere (prerequisite 2 and credit 1)	
* Solar Reflectance Index (SRI) is 102. SRI is tested in accordance with ASTM E 1980.			

Approvals

- UL® 790 Class A Rating
- California State Fire Marshall

Coverage

Type of Roof	Coverage Rate (per coat)*
Fiber glass felts	65 - 100 ft ² /gal (1.60 - 2.45 m ² /l)
Smooth-surfaced modified sheets	65 - 100 ft ² /gal (1.60 - 2.45 m ² /l)
Mineral-surfaced BUR/modified sheets	50 - 70 ft ² /gal (1.23 - 1.72 m ² /l)

* Coverage rates depend upon weather conditions and substrate. Refer to specific code agency Web sites for exact construction information.

Note: When TopGard 4000 is applied as a two-coat process, total cured coating thickness will be approximately 20 mil (0.5 mm).

Packaging

- 5 gal (18.9 l) pails (approximate weight: 60 lb [27.2 kg])
- 55 gal (208 l) drums (approximate weight: 673 lb [305.3 kg])
- 275 gal (1,041 l) totes (approximate weight: 3,290 lb [1,492.3 kg])

Shelf Life

The shelf life of the TopGard products is one year, provided the cans are unopened and have been stored under moderate conditions.

Tested in accordance to ASTM D 6083

Physical Properties

Property	Value
Initial Tensile Strength	270 psi (1.6 MPa)
Initial Elongation	260%
Dry Adhesion	6.5 pli
Wet Adhesion	5.0 pli
Tear Resistance	100 lbf/in (18 kM/m)
1,000-hr Accelerated Weathering	No cracking or checking
Elongation After Accelerated Weathering	220%
Permeance (perms)	12
Water Swelling	26
Fungi Resistance (Zero – No Growth)	Zero rating
Volume Solids	52% ± 1%
Weight Solids	66% ± 1%
Viscosity	110 ± 10
Density	1.43 g/l
Weight	11.9 lb/gal (1.4 kg/l)
Non-volatiles (NVMs)	66% ± 1%

Refer to the Material Safety Data Sheet and product label prior to using this product.